10/664,223

Docket No.: A39.2B-10912-US01

COFC

PATENT

ELINATED UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Clancy, Bybee, Friedrich

Issue No.:

6981672 *B2*-January 3, 2006

Issue Date: For:

FIXED CANARD 2-D GUIDANCE OF ARTILLERY

PROJECTILES

Group Art Unit:

3662

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE (37 CFR 1.322(a))

1. Attached in duplicate is Form PTO-1050 with at least one copy being suitable for printing.

NOTE: Form PTO-1050, using the column and line number in the printed patent should be used exclusively regardless of the length or complexity of the subject matter. MPEP §1485.

NOTE: The patent grant should be retained by the patentee. The PTO does not attach the certificate of correction to the patentee's copy of the patent. The patent grant will be returned to the patentee if submitted. MPEP§1485.

2. The exact page and line number where the errors occur in the application file are:

THE ERROR IS NOT OCCUR IN THE APPLICATION. PLEASE REFER TO THE DOCUMENTATION SHOWING THE CORRECT NAME OF THE ASSIGNEE AT THE TIME APPLICANT PAID THE ISSUE FEE FOR THE ABOVE PATENT. THE CORRECT NAME SHOULD BE INDICATED AS:

ALLIANT TECHSYSTEMS INC.

NOTE: The information should be identified in this request, however on Form PTO-1050, only the column and the line number in the printed patent should be used. MPEP§1485.

Certificate

JAN 9 0 2006

of Correction

3. Please send the Certificate to:

Richard A. Arrett VIDAS, ARRETT & STEINKRAUS Suite 2000 6109 Blue Circle Drive Minnetonka, MN 55343-9185

Respectfully submitted,

VIDAS, ARRETT STEINKRAUS

Date: January 1, 2006

Richard A. Arrett Registration No.: 33153

6109 Blue Circle Drive, Suite 2000 Minnetonka, MN 55343-9185 Telephone: (952) 563-3000 Facsimile: (952) 563-3001

f:\wpwork\raa\10912us01_cer_20060110.doc

Type Name of Assignee: Allaint Techsystems Inc.

Assignment Recorded on Sept. 17, 2003 at Reel 014519, Frame 0121.

Recordal of Assignment attached along with copy of documentation showing filing of Issue Fee and indication of Assignee on PTOL-85 Form, Box 3.

NOTE: "A certificate of correction, under 35 U.S.C. 254, may be issued at the request of the patentee or his assignee". 37 CFR 1.322(a). The certificate of correction can be signed by the attorney of record who acts on behalf of the inventor(s) or assignee(s).

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6981672 B2

DATED : January 3, 2006

INVENTORS: Clancy, Bybee, Friedrich

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

First page of issued patent, line (73)

Delete "Aleiant" and insert - Alliant --

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6981672 **B2**

DATED: January 3, 2006

INVENTORS: Clancy, Bybee, Friedrich

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

First page of issued patent, line (73)

Delete "Aleiant" and insert - Alliant --

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Clancy, Bybee, Friedrich

Application No.:

10/664223 Pat No 6981672

Filed:

September 17, 2003

Issued 1/3/06

For:

FIXED CANARD 2-D GUIDANCE OF

ARTILLERY PROJECTILES

Group Art Unit:

3662

Mail Stop _____ Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Docket No.: A39.2B-10912-US01

TRANSMITTAL LETTER

- 1. In regard to the above-identified application, in addition to this 1 page cover sheet, we are enclosing a 2 pg Request for Certificate of Correction PTO Mistake; duplicate pages of Certificate, copy of recorded Assignment, copy of documents showing payment of issue fee, post card.
- 2. With respect to fees:

No additional fee is required.

- Attached is check(s) in the amount of \$
- □ Charge additional fee to our Deposit Account No. 22-0350.

3. CONDITIONAL PETITION FOR EXTENSION OF TIME

This conditional petition is being filed along with the papers identified in Item 1 above and provides for the possibility that Applicant has inadvertently overlooked the need for a petition and fee for extension of time or for a petition and fee for any other matter petitionable to the Commissioner as required. If any extension of time for the accompanying response is required or if a petition for any other matter is required, by petitioner, Applicant requests that this be considered a petition therefor.

4. Notwithstanding paragraph 2 above, if any additional fees associated with this communication are required and have not otherwise been paid, including any fee associated with the Conditional Petition for Extension of Time, or any request in the accompanying papers for action which requires a fee as a petition to the Commissioner, please charge the additional fees to Deposit Account No. 22-0350.

Please charge any additional fees or credit overpayment associated with this communication to the Deposit Account No. 22-0350.

Respectfully submitted,

VIDAS, ARREZT & STEINKRAUS

Date: January 2006

Richard A. Arrett

Registration No.: 33153

6109 Blue Circle Drive, Suite 2000 Minnetonka, MN 55343-9185

Telephone: (952) 563-3000 Facsimile: (952) 563-3001

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Certificate Under 37 CFR 1.8: I hereby certify that this Transmittal Letter and the paper(s) as described herein, are being deposited in the U.S. Postal Service, as FIRST CLASS MAIL, addressed to Mail Stop _____, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450, on January 10, 2006.

Julie Emerson





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UNITED STATES PATENT AND TRADEMARK OFF

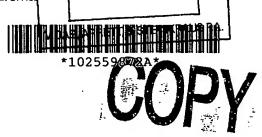
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APR 2 7 2004

APRIL 21, 2004

PTAS

VIDAS ARRETT & STEINKRAUS, P.A. RICHARD A. ARRETT 6109 CIRCLE DRIVE SUITE 2000 MINNETONKA, MN 55343-9185



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/17/2003

REEL/FRAME: 014519/0121

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CLANCY, JOHN A.

DOC DATE: 09/03/2003

ASSIGNOR:

BYBEE, THOMAS D.

DOC DATE: 09/03/2003

ASSIGNOR:

FRIEDRICH, WILLIAM A.

DOC DATE: 09/04/2003

ASSIGNEE:

ALLIANT TECHSYSTEMS INC. 5050 LINCOLN DRIVE EDINA, MINNESOTA 55436

SERIAL NUMBER: 10664223

FILING DATE: 09/17/2003

PATENT NUMBER:

ISSUE DATE:

014519/0121 PAGE 2

JEEVON JONES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



Form PTO-1595 1-31-92 9/11/03

09-26-2003

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

IEET

1/1/10	02559872				
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.					
Name of conveying party(ies): John A. Clancy; Thomas D. Bybee; William A. Friedrich	2. Name and address of receiving party(ies): Name: Alliant Techsystems Inc.				
Additional name(s) of conveying party(ies) attached? 3. Nature of Conveyance:	Street Address: 5050 Lincoln Drive, Edina, Minnesota 55436 City: State: Zip:				
Assignment	Additional name(s) & address(es) attached? □ Yes 🔀 No				
4. Application number(s) or patent number(s): If this document is being filed with a new application	, the execution date of the application is:				
A. Patent Application No.(s) 10 66 4223	B. Patent No.(s)				
Additional	l numbers attached? □ Yes ≯No				
Name and address of party to whom correspondence concerning document should be	6. Total number of applications and patents involved:				
mailed: Richard A. Arrett Vidas, Arrett & Steinkraus, P.A.	7. Total fee (37 CFR 3.41): \$40 Enclosed Authorized to be charged to deposit account				
Suite 2000, 6109 Blue Circle Drive Minnetonka, MN 55343-9185	8. Deposit Account Number: 22-0350 (Attach duplicate of this page if paying by deposit account)				
DO NOT USE THIS SPACE					
9. Statement and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Richard A. Arrett E3/2003 WASFAWI 00000011 10664223 Signature Date					
-0:3021 40.04 DP Total ni	umber of pages including cover sheet, attachments, and document:				
OMB No. 0651-011 (exp. 4/94)					
Do not detach this portion					
Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450					

UTILITY/DESIGN PATENT Docket No. A39.2-10912

ASSIGNMENT

-cono. 5519 T	6 Lawson Lane, Ed akeland Road, Minu nterest in an inventio	on for:	invented and own the entire United States
	FIXED CANAR	D 2-D GUIDANCE OF ARTIL	LERY PROJECTILES
disclosed in m	y (our) application fo	r United States Letter Patent filed	l:
8 3	concurrently here on and	assigned Senal No w	nd
2000, 6109 Bl	••	horize and request any attorney onetonka, MN 55343-9185, to inse	f Vidas, Arrett & Steinkraus, P.A., Suite art the filing date and application number of
under and by Lincoln Driv	WHEREAS, All virtue of the laws of e. Edina. Minnesoti	iant Techsystems Inc. ("Assign the State of Delaware, and having	ee"), a corporation organized and existing 3 its principal place of business at 5050 the entire right, title, and interest in and to and all Letters Patent, and to any and all d thereon;
of which is h	NOW, THERES ereby acknowledged entire right, title and i	PORB, Be It Known that for good, I(we) hereby sell, assign, and trainterest, legal and equitable, in an etters Patent, and to any and all D	and valuable consideration, the receipt of all unsfer unto Assignee, its successors, and d to said invention, to said application for any besign Letters Patent of any and all countries and Trademarks is hereby authorized and which may be granted to said invention to
Assignee. Dated: 9/		First Inventor's Signature: First Inventor's Name:	John A. Clarky
Dated: _9-	-3-2003	Second Inventor's Signature: Second Inventor's Name:	Thomas D. Bybes
Dated:	7-4-2003	Third Inventor's Signature: Third Inventor's Name:	William A. Friedrich

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	John Clancy et al		
Title:	FIXED CANARD 2-D GUIDANCE OF ARTILLERY PROJECTILES		
Filed:	□ concurrently herewith		
	on and assigned Serial No		

Docket No.: A39.2-10912

ASSIGNEE'S STATEMENT OF OWNERSHIP 37 CFR 3.73(B)

Alliant Techsystems Inc., a Minnesota corporation, is the assignee of the entire right, title and interest in the patent application identified above by virtue of: An assignment from the inventor(s) of the patent application identified above. A photocopy of A. the Assignment is enclosed. The original Assignment is being mailed to Assignment Branch for recording. OR A chain of title from the inventor(s), of the patent application identified above, to the current [] B. assignee as shown below: To: 1. The document was recorded in the Patent and Trademark Office at Reel ______, Frame ______, or for which a copy thereof is attached. 2. _ To: _ The document was recorded in the Patent and Trademark Office at Reel ______, Frame _____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. The undersigned is empowered to sign this statement of ownership certificate on behalf of the assignee. **VIDAS, ARRETT & STEINKRAUS** By: Richard A. Arrett

Registration No. 33153

6109 Blue Circle Drive, Suite 2000 Minnetonka, MN 55343-9185 Telephone: (952) 563-3000 Facsimile: (952) 563-3001 COPY



ASSIGNMENT

WHERBAS, I(we), John A. Clancy; Thomas D. Bybee; William A. Friedrich residing at 9936 Lawson Lane, Eden Prairie, Minnesota 55347; 5031 142 Lane N.W., Ramsey, Minnesota 55303; 5518 Lakeland Road, Minnetonka, Minnesota 55345 have invented and own the entire United States right, title and interest in an invention for:
FIXED CANARD 2-D GUIDANCE OF ARTILLERY PROJECTILES

disclosed in my	(our) application for	or United States Letter Patent file	d:
8	concurrently her	ewith I assigned Scrial No;	and
2000, 6109 Bh	I (we) hereby au to Circle Drive, Min above when know	thorize and request any attorney anotonka, MN 55343-9185, to in n.	of Vidas, Arrett & Steinkraus, P.A., Suite sert the filing date and application number of
Lincoln Drive	irtue of the laws of Edina, Minnesot	the State of Delaware, and navun	nee"), a corporation organized and existing g its principal place of business at 5050 the entire right, title, and interest in and to and all Letters Patent, and to any and all od thereon;
of which is he assigns, the en and all countri	NOW, THERE reby acknowledged tire right, title and i es, to any and all L	PORR, Be It Known that for goo, I(we) hereby sell, assign, and trinterest, legal and equitable, in an etters Patent, and to any and all I	d and valuable consideration, the receipt of all ansfer unto Assignee, its successors, and all to said invention, to said application for any Design Letters Patent of any and all countries and Trademarks is hereby authorized and which may be granted to said invention to
Assignee. Dated: 9/2		First Inventor's Signature: First Inventor's Name:	John A. Claney
Dated: _9	3-2003	Second Inventor's Signature: Second Inventor's Name:	Thomas D. Byleee
Dated: 9-	4-2003	Third Inventor's Signature: Third Inventor's Name:	William A. Briedrich

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TRANSMISSION OK

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Clancy, Bybee, Friedrich

Application No.: Filed:

10/664223

For:

September 17, 2003
FIXED CANARD 2-D GUIDANCE OF ARTILLERY

PROJECTILES

Examiner:

B. E. Gregory

Group Art Unit:

3662

Firm Docket No.:

A39.2B-10912-US01

Mail Stop Issue Fee

DATE: February (6, 2005)

TIME:

FACSIMILE NO.: 1-703-746-6000

TOTAL NUMBER OF PAGES (including transmittal letter):

FACSIMILE TRANSMITTAL LETTER

Following please find a 1 page PTOL-85 Form for paying issue fee with duplicate copy; and 1 page Facsimile Transmittal Letter.

With respect to fees:

D No additional fee is believed to be required

Charge \$1700.00 fee to our Deposit Account No. 22-0350

Conditional Petition

If any extension of time for the accompanying response is required or if a petition for any other matter is required, applicant requests that this be considered a petition therefore

If any additional fees associated with this communication are required and have not otherwise been paid, please charge the additional fees to Deposit Account No. 22-0350 Please credit overpayment associated with this communication to the Deposit Account No. 22-0350.

Respectfully submitted

VIDAS, ARRETA STEINKRAUS

Date: February /h , 2005

Ву:_____

JAN 1 9 2006 E

PATENT

FAXED

In re Application of

Clancy, Bybee, Friedrich

Application No :

10/664223

Filed:

September 17, 2003

For:

FIXED CANARD 2-D GUIDANCE OF ARTILLERY

PROJECTILES

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B. E. Gregory

Group Art Unit:

3662

Firm Docket No .:

A39.2B-10912-US01

Mail Stop Issue Fee

DATE: February 6, 2005

TIME:

FACSIMILE NO.: 1-703-746-6000

IOTAL NUMBER OF PAGES (including transmittal letter):

FACSIMILE TRANSMITTAL LETTER

Following please find a 1 page PTOL-85 Form for paying issue fee with duplicate copy; and 1 page Facsimile Transmittal Letter

With respect to fees:

D No additional fee is believed to be required

Charge \$1700.00 fee to our Deposit Account No. 22-0350

Conditional Petition

If any extension of time for the accompanying response is required or if a petition for any other matter is required, applicant requests that this be considered a petition therefore

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Respectfully submitted

VIDAS, ARRETA STEINKRAUS

Date: February / 10, 2005

Richard A Aprett

Registration No.: 33153

6109 Blue Circle Drive, Suite 2000 Minnetonka, MN 55343-9185 Telephone: (952) 563-3000

Facsimile: (952) 563-3001

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Certificate of Transmission

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax No. 1-703-746-6000, on February 16, 2005.

Signature:

Julie Emerson

PART B - FEE(S) TRANSMITTAL Complete and send tills form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 T Sh Alexandria, Virginia 22313-1450 (703) 746-4000 or <u>Fax</u> INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for registronger fee potifications. maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 01/03/2005 490 Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below. VIDAS, ARRETI & SIEINKRAUS, P.A. 6109 BLUE CIRCLE DRIVE **SUITE 2000** MINNETONKA, MN 55343-9185 Julie...Emerson (Signature www (Date) **∆ - (**α -α s APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/664.223 09/17/2003 John A Clancy A392-10912 3349 TITLE OF INVENTION: FIXED CANARD 2-D GUIDANCE OF ARTILLERY PROJECTILES APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE NO nonprovisional \$1400 \$300 \$1700 04/04/2005 EXAMINER ART UNIT CLASS-SUBCLASS GREGORY, BERNARR E 3662 244-003240 Change of correspondence address or indication of "Fee Address" (37 CFR 1 363) 2 For printing on the patent front page, list VIDAS, ARRETT & (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents If no name is listed, no name will be printed STEINKRAUS, P.A Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOIE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11 Completion of this form is NOT a substitute for filing an assignment (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) ALLIANT TECHSYSTEMS INC. EDINA, MINNESOTA Please check the appropriate assignee category or categories (will not be printed on the patent): 🚨 Individual 🙇 Corporation or other private group entity 🚨 Government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): Issue Fee A check in the amount of the fee(s) is enclosed Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 22-0350 (enclose an extra copy of this form). Advance Order - # of Copies 5 Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENIIIY status. See 37 CFR 1.27(g)(2). The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the highest States Parent and Trademark Office. Authorized Signature Date Richard A. Arrett 33153 I yped or printed name Registration No

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.